

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 01-264092

(43)Date of publication of application : 20.10.1989

---

(51)Int.Cl. H04N 11/02  
G06F 15/66  
G06F 15/66  
H04N 7/137  
H04N 11/04

---

(21)Application number : 63-092302 (71)Applicant : AGENCY OF IND SCIENCE & TECHNOL

(22)Date of filing : 14.04.1988 (72)Inventor : KURITA TAKIO  
OTSU NOBUYUKI

---

(54) COMPRESSION CODING SYSTEM FOR COLOR PICTURE

(57)Abstract:

PURPOSE: To simplify a device by treating RGB signals representing the color of a picture element as a three-dimension vector and representing the information of the RGB signal by a 1st major component reflecting the information at a maximum.

CONSTITUTION: A color picture is split into small areas and the major component is analyzed with respect to the RGB signal of the picture element included in each small area and each picture element is divided into two classes based on the score of the 1st major component of each picture element obtained as a result and each small area is approximated in 2 colors. Thus, in case of approximating the small area by a mean color optimum in the means of square error, a small area whose mean square error is smaller than a permissible value between a color vector and a mean color vector of each picture element included in the small area can be approximated by one color (mean color) only. That is, the small area able to be approximated by one color is approximated by one color and other small areas are approximated by 2 colors. Thus, considerable information compression is attained and the device is simplified.

---

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japanese Patent Office